

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P1027371

Luminaire Tested: S125DIP-B1090D1270UB35-4F0-XX-W2A-D1

Issue Date: 5/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1027371  
REPORT IS A COMBINATION OF REPORTS P1001316 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S125DIP-B1090D1270UB35-4F0-XX-W2A-D1  
Description: Define 5 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}  
Light Source: -  
Ballast/Driver: -

**Summary**

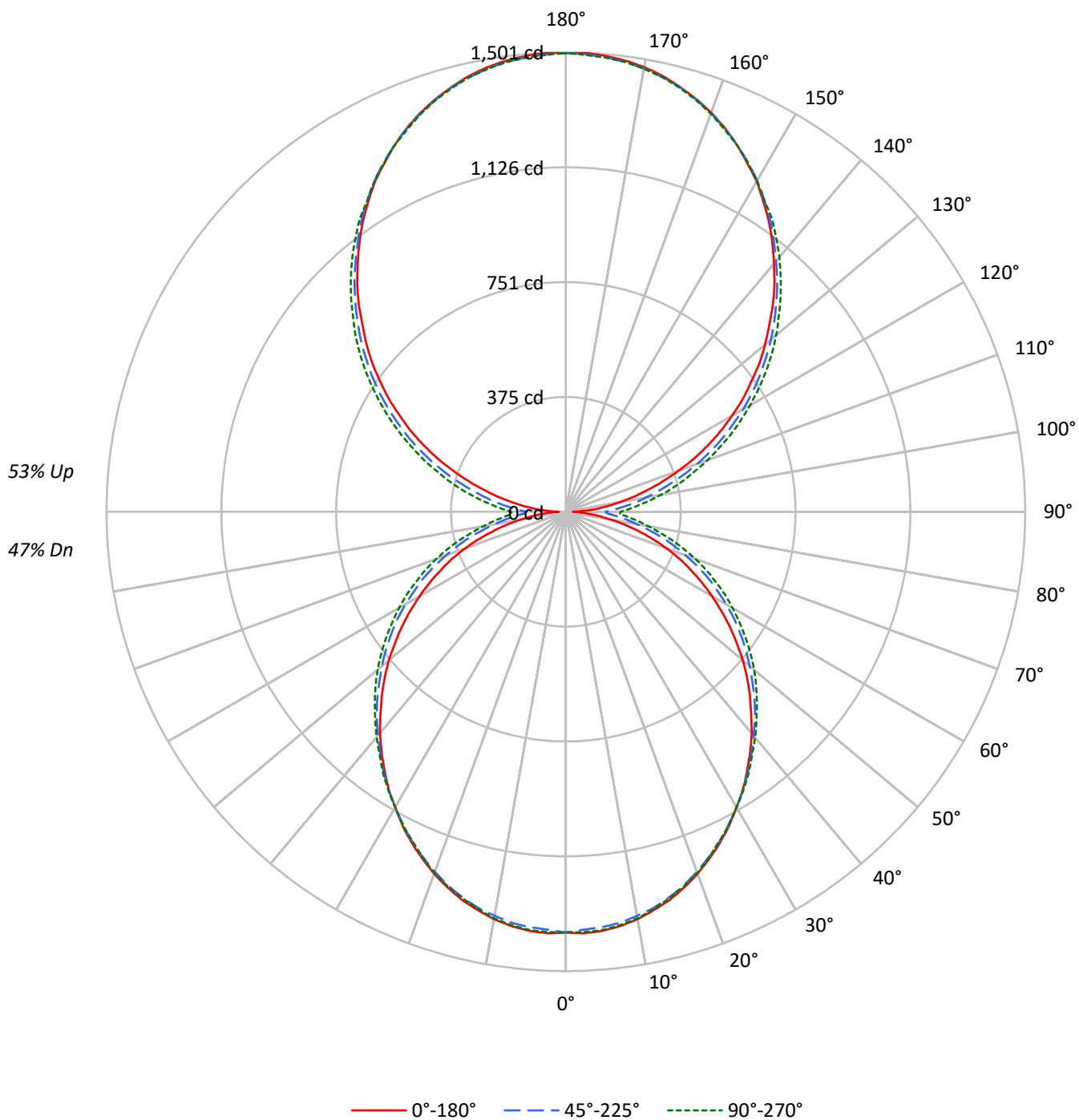
Lumens per Lamp: N/A  
Luminaire Lumens: 8443.0 lumens  
Efficiency: N/A  
Efficacy: 103.2 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34  
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')  
CIE Type: General Diffuse

Input Watts (W): 81.8  
Input Voltage (V):  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

TEST NUMBER: P1027371

CATALOG NUMBER: S125DIP-B1090D1270UB35-4F0-XX-W2A-D1

### Luminous Intensity Polar Plot



TEST NUMBER: P1027371

CATALOG NUMBER: S125DIP-B1090D1270UB35-4F0-XX-W2A-D1

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| RF  | 20  |     |     |     | 20 |    |    |    |    | 20 |    |    |    |    | 20 |    |    |    |    | 20 |
| RC  | 80  |     |     |     | 70 |    |    |    |    | 50 |    |    |    |    | 30 |    |    |    |    | 0  |
| RW  | 70  | 50  | 30  | 10  | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 |
| RCR |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 0   | 107 | 107 | 107 | 107 | 98 | 98 | 98 | 98 | 82 | 82 | 82 | 67 | 67 | 67 | 54 | 54 | 54 | 47 | 47 | 47 |
| 1   | 97  | 92  | 88  | 84  | 88 | 85 | 81 | 78 | 71 | 68 | 66 | 58 | 56 | 55 | 46 | 45 | 44 | 38 | 38 | 38 |
| 2   | 88  | 80  | 73  | 68  | 80 | 73 | 68 | 63 | 62 | 57 | 54 | 51 | 48 | 45 | 40 | 38 | 36 | 32 | 32 | 32 |
| 3   | 80  | 70  | 62  | 56  | 73 | 64 | 58 | 52 | 54 | 49 | 45 | 44 | 41 | 38 | 36 | 33 | 31 | 26 | 26 | 26 |
| 4   | 73  | 62  | 54  | 47  | 67 | 57 | 50 | 44 | 48 | 42 | 38 | 39 | 35 | 32 | 32 | 29 | 26 | 23 | 23 | 23 |
| 5   | 67  | 55  | 47  | 40  | 61 | 51 | 43 | 38 | 43 | 37 | 33 | 35 | 31 | 28 | 28 | 25 | 23 | 19 | 19 | 19 |
| 6   | 61  | 49  | 41  | 35  | 56 | 45 | 38 | 33 | 38 | 33 | 28 | 32 | 27 | 24 | 26 | 23 | 20 | 17 | 17 | 17 |
| 7   | 57  | 44  | 36  | 31  | 52 | 41 | 34 | 29 | 35 | 29 | 25 | 29 | 25 | 21 | 23 | 20 | 18 | 15 | 15 | 15 |
| 8   | 53  | 40  | 32  | 27  | 48 | 37 | 30 | 25 | 32 | 26 | 22 | 26 | 22 | 19 | 22 | 18 | 16 | 13 | 13 | 13 |
| 9   | 49  | 37  | 29  | 24  | 45 | 34 | 27 | 23 | 29 | 24 | 20 | 24 | 20 | 17 | 20 | 17 | 14 | 12 | 12 | 12 |
| 10  | 46  | 34  | 26  | 21  | 42 | 31 | 25 | 20 | 27 | 21 | 18 | 22 | 18 | 15 | 18 | 15 | 13 | 11 | 11 | 11 |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 8807 | 8807 | 8807 |
| 5°  | 8821 | 8622 | 8643 |
| 10° | 8755 | 8446 | 8422 |
| 15° | 8648 | 8241 | 8150 |
| 20° | 8504 | 7994 | 7880 |
| 25° | 8334 | 7731 | 7554 |
| 30° | 8127 | 7445 | 7257 |
| 35° | 7935 | 7180 | 6984 |
| 40° | 7738 | 6902 | 6708 |
| 45° | 7517 | 6661 | 6460 |
| 50° | 7304 | 6399 | 6236 |
| 55° | 7049 | 6149 | 5976 |
| 60° | 6770 | 5864 | 5709 |
| 65° | 6477 | 5564 | 5409 |
| 70° | 6142 | 5162 | 5097 |
| 75° | 5615 | 4765 | 4716 |
| 80° | 4922 | 4282 | 4295 |
| 85° | 4237 | 3899 | 4073 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 7517 cd/sqm

TEST NUMBER: P1027371

CATALOG NUMBER: S125DIP-B1090D1270UB35-4F0-XX-W2A-D1

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 130.1  | 1.5       |
| 10°-20°   | 369.2  | 4.4       |
| 20°-30°   | 549.1  | 6.5       |
| 30°-40°   | 650.3  | 7.7       |
| 40°-50°   | 672.3  | 8.0       |
| 50°-60°   | 619.3  | 7.3       |
| 60°-70°   | 500.6  | 5.9       |
| 70°-80°   | 335.0  | 4.0       |
| 80°-90°   | 175.5  | 2.1       |
| 90°-100°  | 197.2  | 2.3       |
| 100°-110° | 367.9  | 4.4       |
| 110°-120° | 550.2  | 6.5       |
| 120°-130° | 688.3  | 8.2       |
| 130°-140° | 752.6  | 8.9       |
| 140°-150° | 728.4  | 8.6       |
| 150°-160° | 609.9  | 7.2       |
| 160°-170° | 405.4  | 4.8       |
| 170°-180° | 141.9  | 1.7       |
| 0°-30°    | 1048.4 | 12.4      |
| 0°-40°    | 1698.6 | 20.1      |
| 0°-60°    | 2990.2 | 35.4      |
| 0°-90°    | 4001.3 | 47.4      |
| 90°-120°  | 1115.4 | 13.2      |
| 90°-150°  | 3284.6 | 38.9      |
| 90°-180°  | 4442.0 | 52.6      |
| 0°-180°   | 8443.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1374 | 1374  | 1374 | 1374  | 1374 |      |
| 5°   | 1374 | 1372  | 1362 | 1373  | 1372 | 130  |
| 15°  | 1312 | 1314  | 1304 | 1312  | 1307 | 370  |
| 25°  | 1193 | 1197  | 1188 | 1194  | 1187 | 549  |
| 35°  | 1032 | 1042  | 1038 | 1042  | 1042 | 646  |
| 45°  | 850  | 865   | 872  | 881   | 883  | 656  |
| 55°  | 654  | 675   | 697  | 712   | 717  | 584  |
| 65°  | 450  | 481   | 513  | 534   | 539  | 447  |
| 75°  | 248  | 283   | 326  | 353   | 360  | 263  |
| 85°  | 74   | 119   | 166  | 195   | 206  | 77   |
| 90°  | 23   | 75    | 129  | 166   | 179  | 20   |
| 95°  | 93   | 131   | 188  | 226   | 238  | 93   |
| 105° | 278  | 305   | 353  | 387   | 400  | 296  |
| 115° | 511  | 525   | 562  | 585   | 592  | 505  |
| 125° | 739  | 745   | 773  | 792   | 798  | 662  |
| 135° | 957  | 962   | 973  | 990   | 992  | 737  |
| 145° | 1157 | 1160  | 1164 | 1171  | 1172 | 723  |
| 155° | 1323 | 1323  | 1324 | 1328  | 1323 | 609  |
| 165° | 1438 | 1436  | 1437 | 1442  | 1434 | 406  |
| 175° | 1495 | 1490  | 1490 | 1498  | 1489 | 142  |
| 180° | 1499 | 1499  | 1499 | 1499  | 1499 |      |

TEST NUMBER: P1027371

CATALOG NUMBER: S125DIP-B1090D1270UB35-4F0-XX-W2A-D1

**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 1374.5 | 1374.5 | 1374.5 | 1374.5 | 1374.5 |
| 2.5°   | 1378.6 | 1375.9 | 1366.4 | 1375.9 | 1374.5 |
| 5°     | 1374.5 | 1371.8 | 1362.4 | 1373.2 | 1371.8 |
| 7.5°   | 1365.1 | 1363.7 | 1354.3 | 1363.7 | 1362.4 |
| 10°    | 1351.6 | 1351.6 | 1340.8 | 1350.3 | 1348.9 |
| 12.5°  | 1332.7 | 1334.1 | 1326.0 | 1332.7 | 1328.7 |
| 15°    | 1312.5 | 1313.9 | 1304.4 | 1312.5 | 1307.1 |
| 17.5°  | 1286.9 | 1289.6 | 1280.2 | 1286.9 | 1282.9 |
| 20°    | 1258.6 | 1261.3 | 1251.9 | 1255.9 | 1255.9 |
| 22.5°  | 1226.3 | 1231.7 | 1220.9 | 1226.3 | 1222.2 |
| 25°    | 1192.6 | 1196.6 | 1188.5 | 1193.9 | 1187.2 |
| 27.5°  | 1156.2 | 1161.6 | 1152.2 | 1156.2 | 1153.5 |
| 30°    | 1114.4 | 1122.5 | 1114.4 | 1117.1 | 1115.8 |
| 32.5°  | 1076.7 | 1083.4 | 1078.0 | 1080.7 | 1079.4 |
| 35°    | 1032.2 | 1041.7 | 1037.6 | 1041.7 | 1041.7 |
| 37.5°  | 989.1  | 997.2  | 995.8  | 1001.2 | 999.9  |
| 40°    | 944.6  | 955.4  | 954.1  | 959.5  | 962.2  |
| 42.5°  | 896.1  | 911.0  | 915.0  | 921.7  | 921.7  |
| 45°    | 850.3  | 865.1  | 871.9  | 881.3  | 882.7  |
| 47.5°  | 803.1  | 816.6  | 827.4  | 840.9  | 843.6  |
| 50°    | 754.6  | 769.5  | 784.3  | 799.1  | 803.1  |
| 52.5°  | 703.4  | 722.3  | 741.2  | 757.3  | 760.0  |
| 55°    | 653.6  | 675.1  | 696.7  | 711.5  | 716.9  |
| 57.5°  | 602.4  | 628.0  | 652.2  | 668.4  | 672.4  |
| 60°    | 551.2  | 578.1  | 605.1  | 625.3  | 629.3  |
| 62.5°  | 501.3  | 528.2  | 557.9  | 580.8  | 586.2  |
| 65°    | 450.1  | 481.1  | 513.4  | 533.6  | 539.0  |
| 67.5°  | 402.9  | 432.6  | 464.9  | 489.2  | 495.9  |
| 70°    | 350.4  | 381.4  | 416.4  | 442.0  | 450.1  |
| 72.5°  | 299.2  | 331.5  | 370.6  | 398.9  | 404.3  |
| 75°    | 248.0  | 283.0  | 326.1  | 353.1  | 359.8  |
| 77.5°  | 198.1  | 238.5  | 278.9  | 308.6  | 314.0  |
| 80°    | 152.3  | 192.7  | 238.5  | 268.2  | 273.6  |
| 82.5°  | 110.5  | 153.6  | 200.8  | 229.1  | 239.9  |
| 85°    | 74.1   | 118.6  | 165.8  | 195.4  | 206.2  |
| 87.5°  | 47.2   | 90.3   | 136.1  | 167.1  | 176.5  |
| 90°    | 22.8   | 75.2   | 129.2  | 166.0  | 178.9  |
| 92.5°  | 53.9   | 98.7   | 156.4  | 194.3  | 206.0  |
| 95°    | 93.3   | 130.7  | 188.2  | 226.0  | 237.8  |
| 97.5°  | 132.8  | 166.3  | 227.1  | 262.4  | 273.0  |
| 100°   | 178.1  | 206.4  | 264.6  | 303.4  | 313.9  |
| 102.5° | 226.9  | 258.4  | 306.0  | 344.6  | 356.2  |
| 105°   | 278.0  | 305.4  | 352.8  | 386.8  | 399.7  |
| 107.5° | 333.9  | 358.5  | 403.4  | 433.9  | 442.0  |
| 110°   | 391.9  | 414.0  | 455.2  | 484.3  | 492.6  |

TEST NUMBER: P1027371

CATALOG NUMBER: S125DIP-B1090D1270UB35-4F0-XX-W2A-D1

**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 112.5° | 452.6  | 467.1  | 508.1  | 533.6  | 540.6  |
| 115°   | 510.8  | 524.8  | 562.3  | 585.3  | 592.2  |
| 117.5° | 570.0  | 578.0  | 614.0  | 638.1  | 642.8  |
| 120°   | 626.0  | 635.9  | 668.1  | 691.0  | 694.4  |
| 122.5° | 685.3  | 687.8  | 721.0  | 741.3  | 745.9  |
| 125°   | 739.0  | 744.6  | 772.8  | 792.0  | 797.6  |
| 127.5° | 797.1  | 799.3  | 823.3  | 842.4  | 848.1  |
| 130°   | 849.6  | 854.1  | 875.3  | 893.0  | 897.4  |
| 132.5° | 900.7  | 911.2  | 923.6  | 941.2  | 943.1  |
| 135°   | 956.7  | 962.3  | 973.0  | 990.5  | 992.5  |
| 137.5° | 1009.2 | 1014.8 | 1022.5 | 1039.9 | 1039.5 |
| 140°   | 1057.9 | 1063.8 | 1068.7 | 1085.8 | 1085.4 |
| 142.5° | 1108.1 | 1111.5 | 1116.1 | 1129.4 | 1129.0 |
| 145°   | 1157.1 | 1160.4 | 1163.9 | 1170.6 | 1172.5 |
| 147.5° | 1201.3 | 1204.8 | 1207.1 | 1213.3 | 1206.7 |
| 150°   | 1246.8 | 1245.6 | 1250.3 | 1250.3 | 1249.2 |
| 152.5° | 1284.1 | 1286.4 | 1287.6 | 1291.1 | 1286.4 |
| 155°   | 1322.6 | 1322.6 | 1323.7 | 1328.4 | 1322.6 |
| 157.5° | 1357.6 | 1355.2 | 1356.4 | 1361.0 | 1352.9 |
| 160°   | 1387.9 | 1384.4 | 1385.5 | 1390.2 | 1384.4 |
| 162.5° | 1414.7 | 1412.4 | 1412.4 | 1418.2 | 1411.2 |
| 165°   | 1438.0 | 1435.7 | 1436.9 | 1441.5 | 1434.5 |
| 167.5° | 1459.0 | 1454.4 | 1454.4 | 1461.3 | 1454.4 |
| 170°   | 1475.3 | 1470.7 | 1470.7 | 1477.7 | 1469.5 |
| 172.5° | 1487.0 | 1482.3 | 1482.3 | 1489.3 | 1482.3 |
| 175°   | 1495.2 | 1490.5 | 1490.5 | 1497.5 | 1489.3 |
| 177.5° | 1501.0 | 1496.3 | 1495.2 | 1502.2 | 1494.0 |
| 180°   | 1498.7 | 1498.7 | 1498.7 | 1498.7 | 1498.7 |

(END OF REPORT)